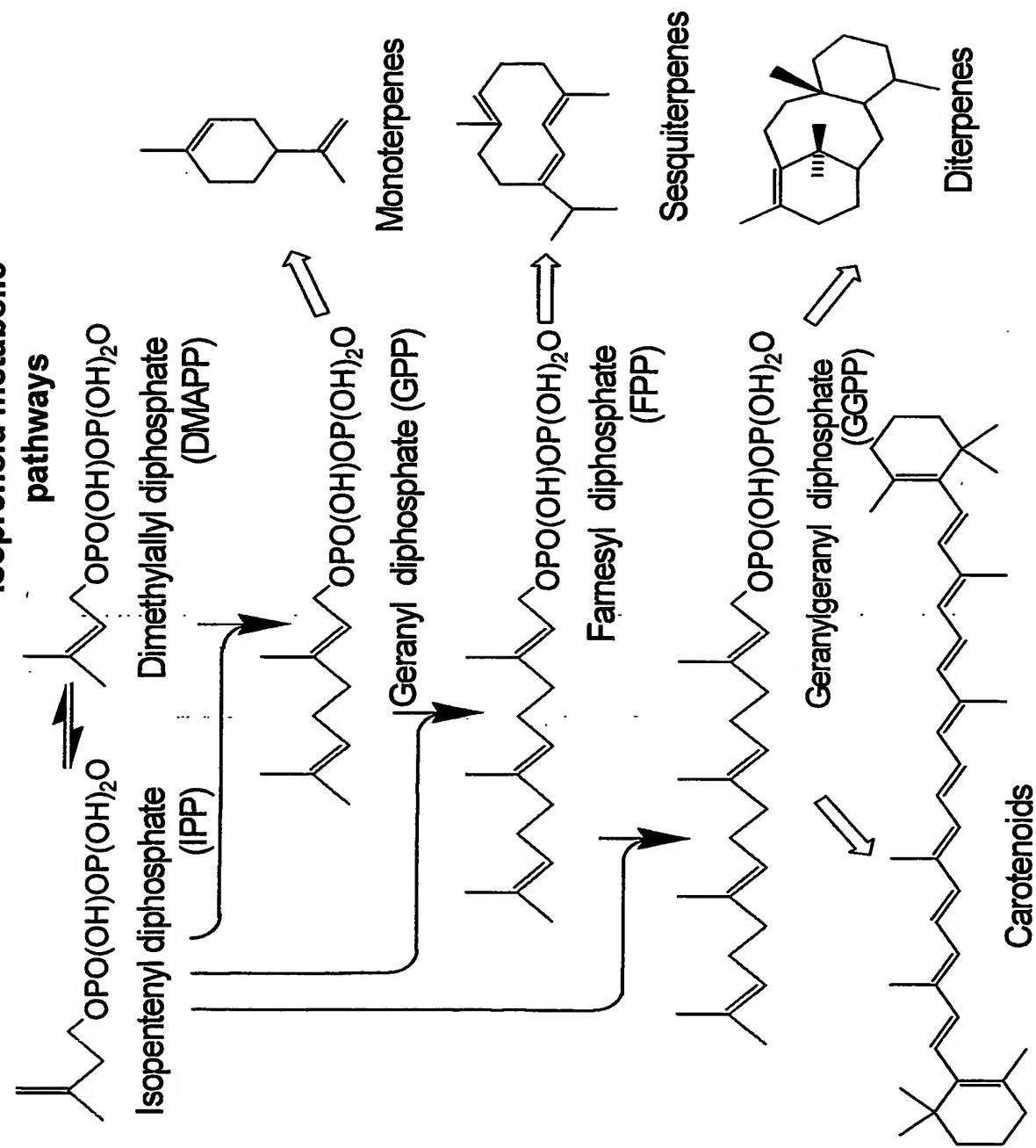


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FIG. 1
Isoprenoid metabolic pathways



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FIG. 2
Mevalonate pathway

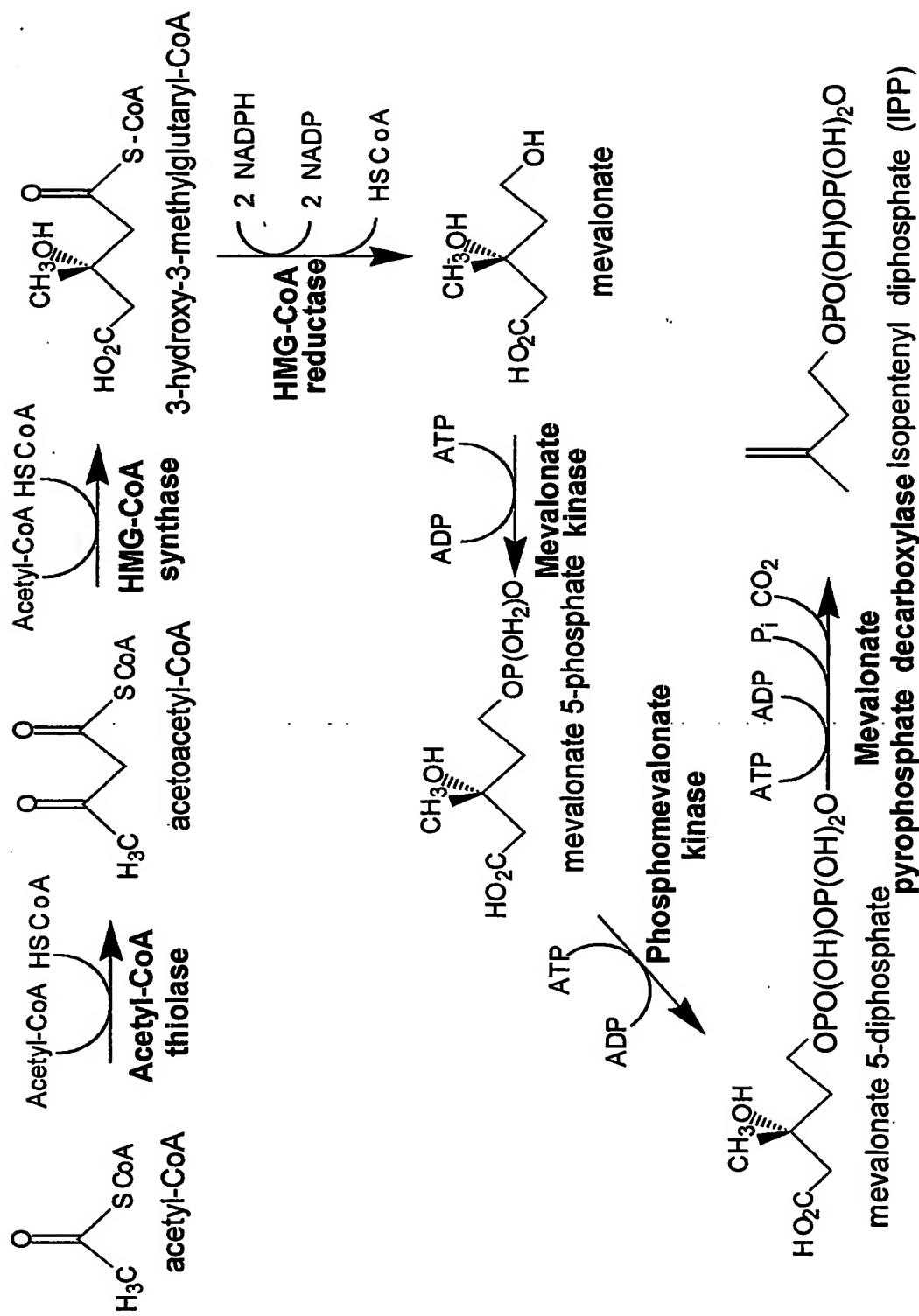
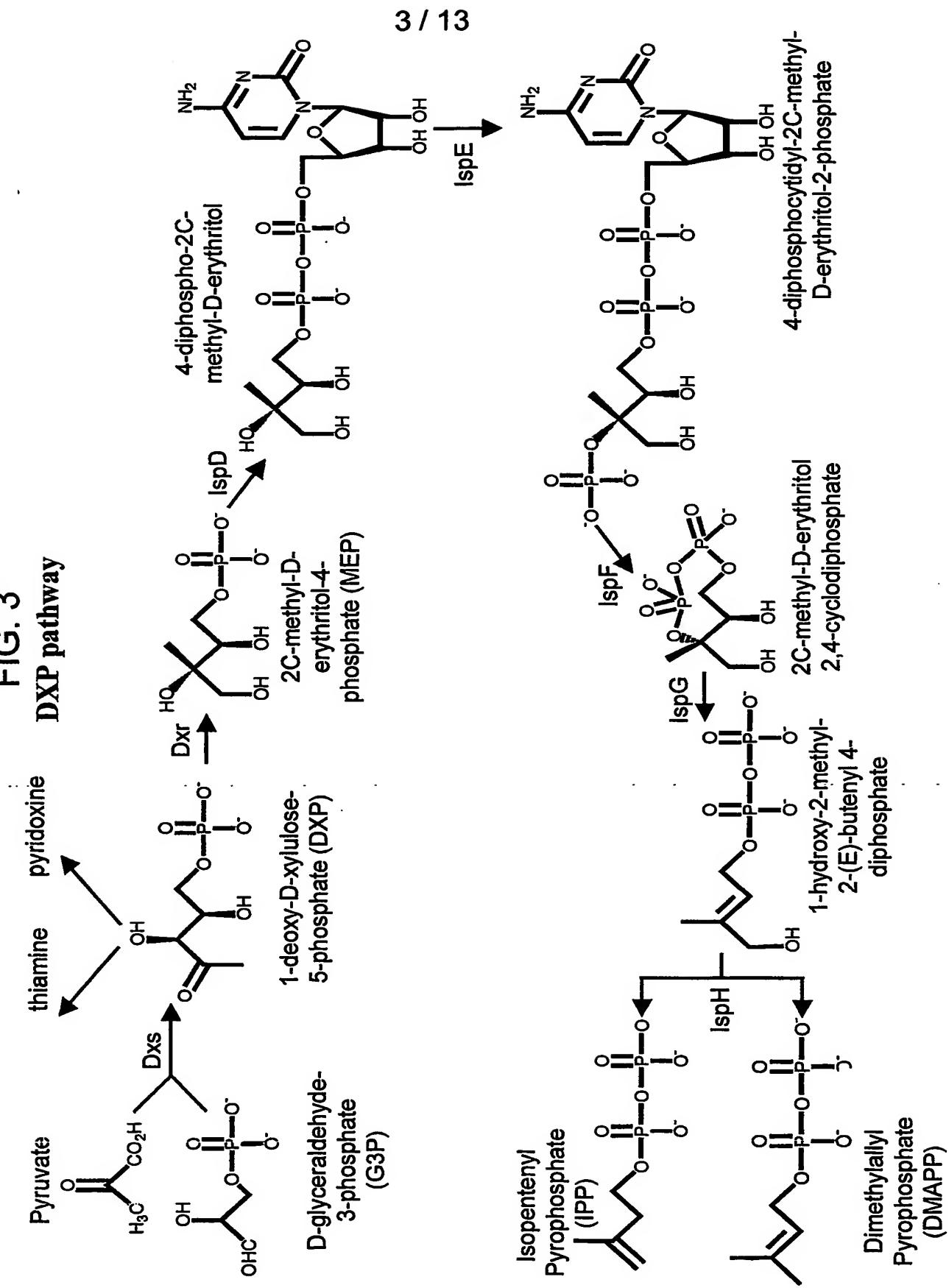


FIG. 3
DXP pathway



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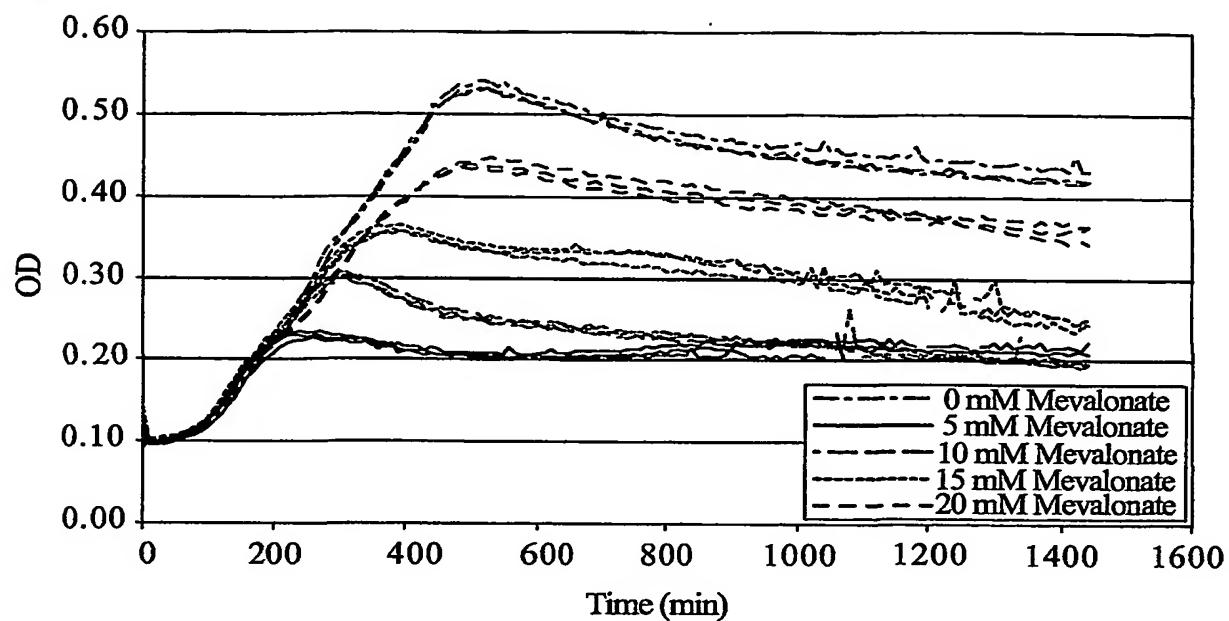


FIG. 4

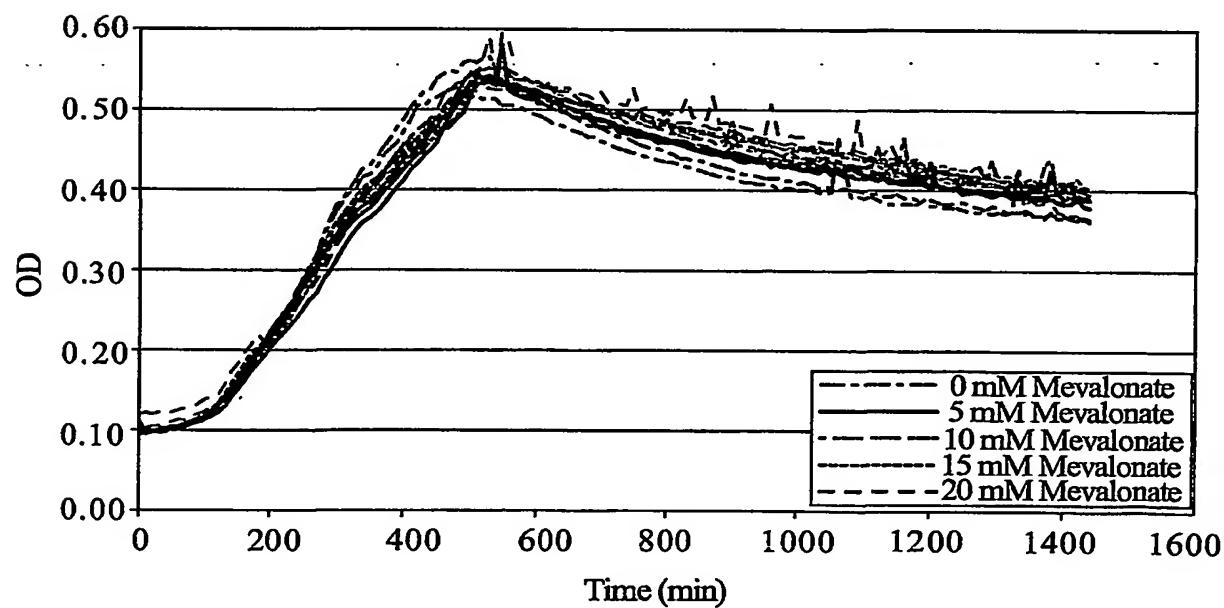
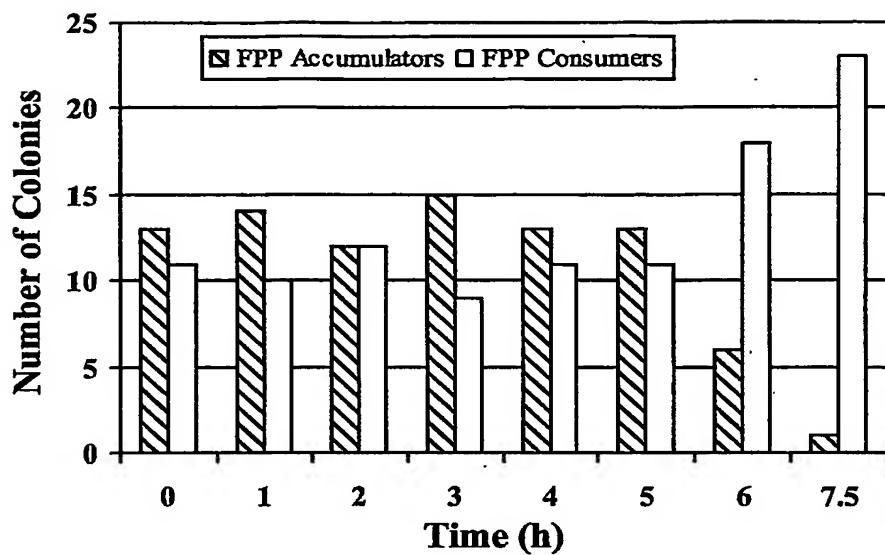


FIG. 5

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FIG. 6



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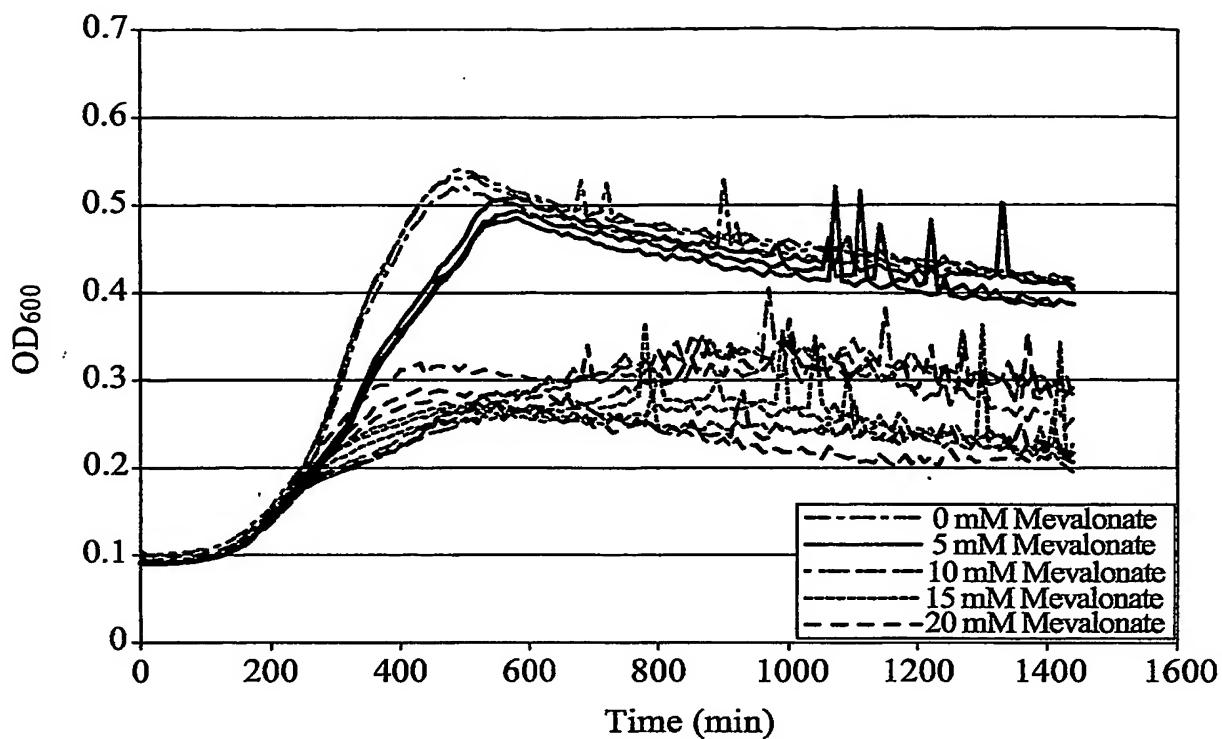


FIG. 7

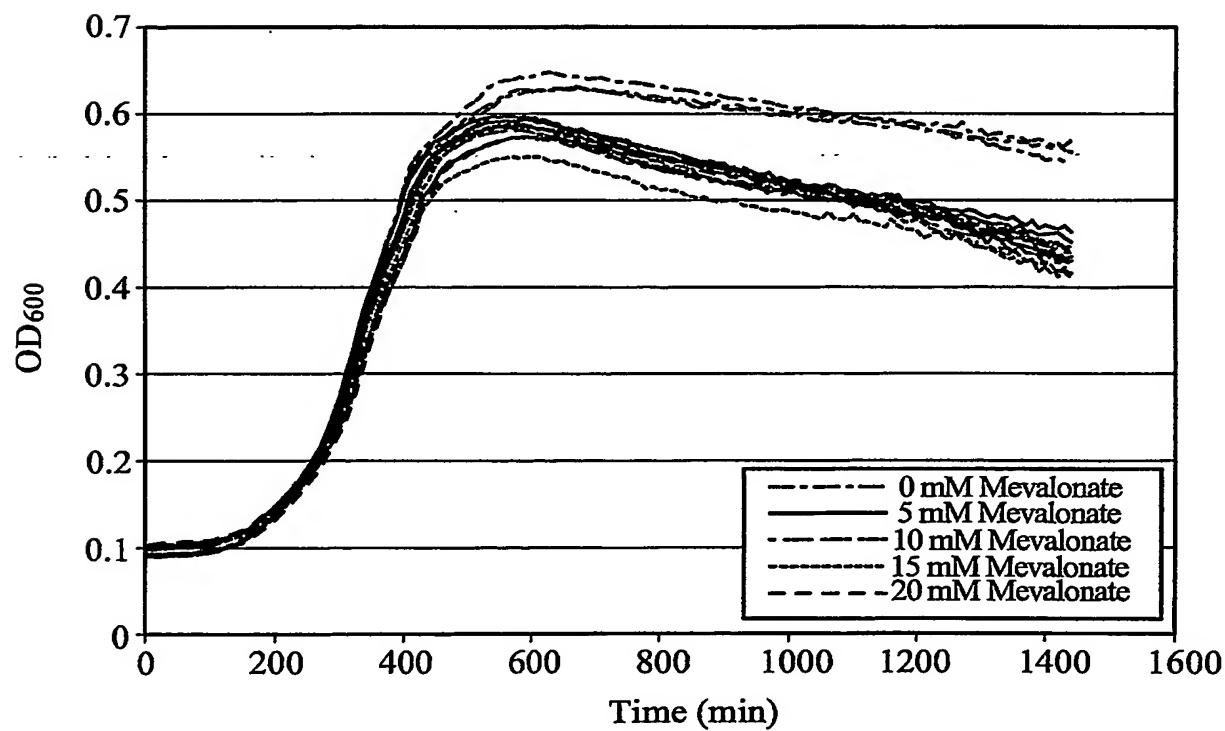


FIG. 8

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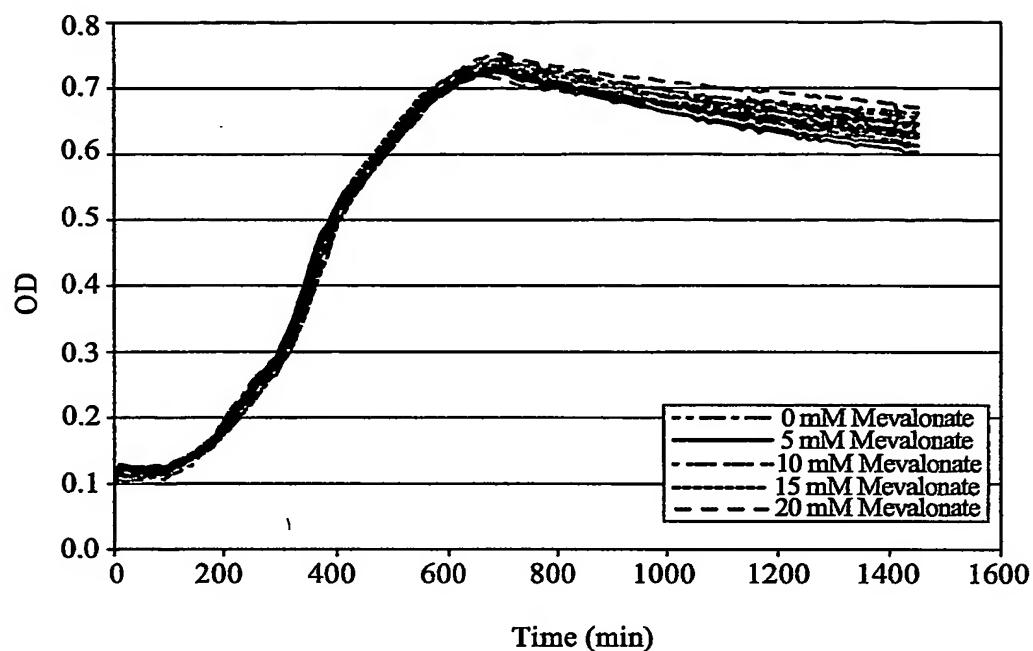
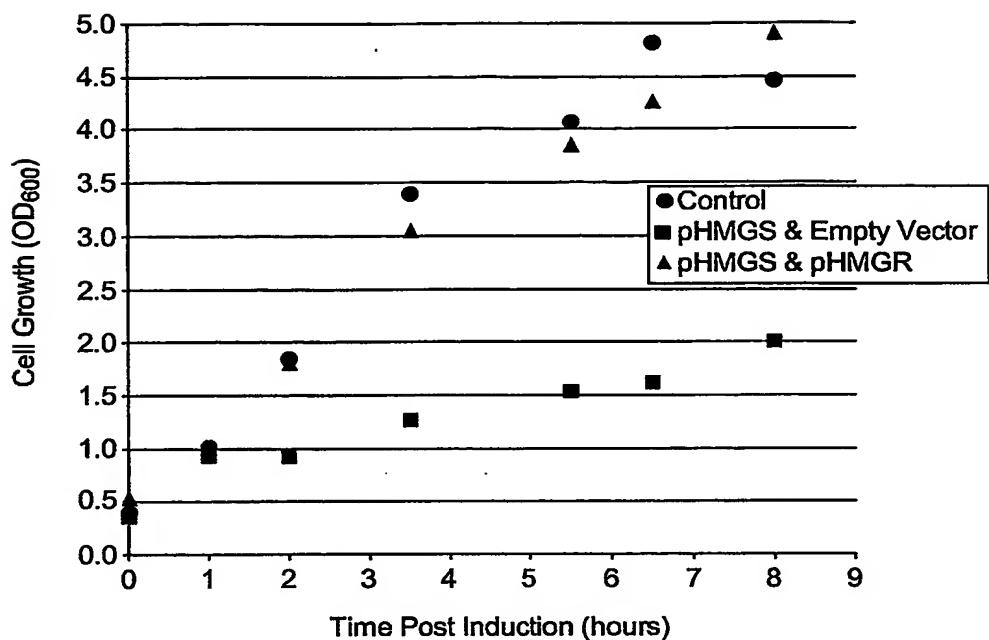


FIG. 9

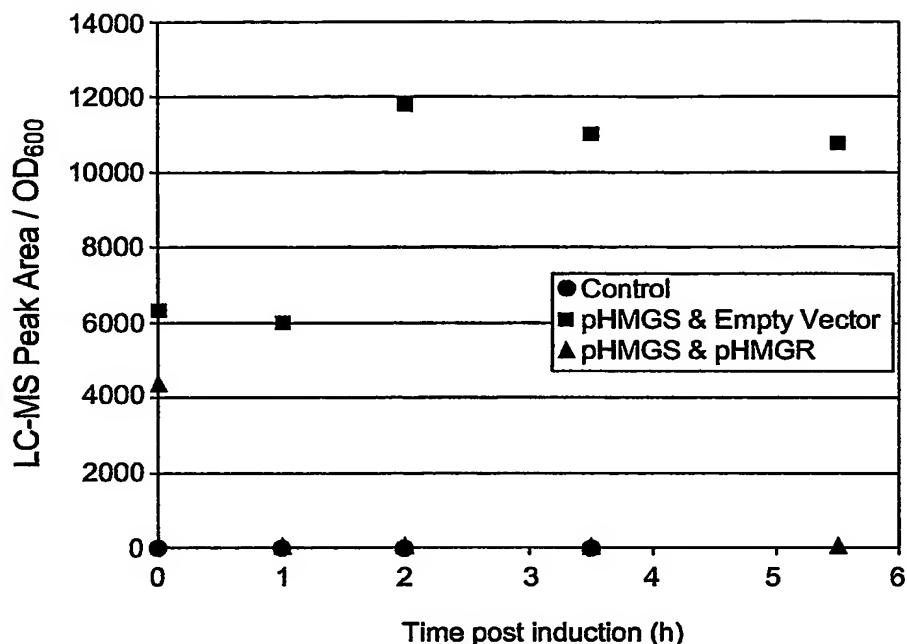
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FIG. 10



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FIG. 11



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FIG. 12A

T-16
CTCTGAAACAGCCGCTGTGGAAACGTCTGCCCGTATCGAAGCAGCACAGTACATTCCG
GAGACTTTGTCGGCGACACCTTGAGACGGCGCATAGCTCGTGTATGTAAGGC
B-16 B-17
T-17 T-18
TTTACCGAGCAGGACTCTCACACAAGACCCCTGCTGAAACTGGCTAACGCTGGAATT
AAAATGGTCGTCGTCCTGAGAGTGTGTTCTGGGACGACTTGACCGATTGACCTAA
B-18
T-19
CAACCTGCTGCAGTCTCTGCACAAAGAAGAACGTCTCACGTTGTAAGTGTGGAAGG
GTTGGACGACGTCAGAGACGTGTTCTCTTGACAGAGTGCAAACATTCACACCACCTCC
B-19 B-20
T-20 T-21
CATTTGACATCAAGAAAAACGCGCCGTGCCTGCGTGAACCGTATCGTTGAATGTTACTTC
GTAAACTGTAGTTCTTTGCGCGGACGGACGCACTGGCATAGCAACTTACAATGAAG
B-21
T-22
TGGGGTCTGGTTCTGGTTATGAACACAGTACTCCCGTGCACGTGTGTTCTCACTAA
ACCCCCAGACCCAAGACCAACTTGGTGTATGAGGGCACGTGCACACAAGAAGTGATT
B-22 B-23
T-23 T-24
AGCTGTAGCTGTATCACCCCTGATCGATGACACTTACGATGCTTACGGCACCTACGAAG
TCGACATCGACAATACTGGGACTAGCTACTGTGAATGCTACGAATGCCGTGGATGCTTC
B-24
T-25
AACTGAAGATCTTACTGAAGCTGTAGAACGCTGGTCTATCACTTGCCTGGACACTCTG
TTGACTTCTAGAAATGACTTCGACATCTTGCACCGAGATAGTGAACGGACCTGTGAGAC
B-26 B-26
T-27
CCGGAGTACATGAAACGATCTACAAACTGTTCATGGATACCTACACCGAAATGGAGGA
GGCCTCATGTACTTGGCTAGATGTTGACAAAGTACCTATGGATGTGGCTTACCTCCT
B-27
T-28
ATTCCCTGGCAAAAGAAGGCCGTACCGACCTGTTCAACTGCGGTAAGAGTTGTTAAAG
TAAGGACCGTTTCTTCCGGCATGGCTGGACAAAGTTGACGCCATTCTCAAACAATTTC
B-28 B-29
T-29
AATTCGTACGTAACCTGATGGTTGAAGCTAAATGGCTAACGAAGGCCATATCCCGACT
TTAACGATGCATTGGACTACCAACTTCGATTACCCGATTGCTTCCGGTATAGGGCTGA
B-30
T-31
ACCGAAGAACATGACCCGGTTGTTATCATCACCGCGGTGCAAACCTGCTGACCACAC
TGGCTTCTTGTACTGGGCCAACAAATAGTAGTGGCCGCCACGTTGGACGACTGGTGGTG
B-31

FIG. 12B

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T-32

TTGCTATCTGGTATGTCCGACATCTTACCAAGGAATCTGTTGAATGGGCTGTTCTG
AACGATAGACCCATAACAGGCTGTAGAAATGGTCCTTAGACAACCTACCGACAAAGAC

B-33

B-32

T-34

T-33

CACCGCCGCTGTTCCGTTACTCCGGTATTCTGGGTCGTCGCTGAACGACCTGATGACC
GTGGCGGCCACAAGGCAATGAGGCCATAAGACCCAGCAGCAGACTTGCTGGACTACTGG

B-34

T-35

CACAAACAGAGCAGGAACGTAACACTCTTCCTCCTCTGGAATCTACATGAAGGA
GTGTTCTCGTCTCGTCCTGCATTGTGAGAAGGAGGAGACCTTAGGATGTACTTCCT

B-36

B-35

T-37

ATATAACGTTAACGAGGAGTACGCACAGACTCTGATCTATAAAGAAGTTGAAGACGTAT
TATATTGCAATTGCTCCTCATGCGTGTCTGAGACTAGATATTCCTCAACTTCTGCATA

B-37

T-38

GGAAAGACATCAACCGTGAATACCTGACTACTAAAAACATCCCGCGCCCGCTGCTGATG
CCTTCCTGTAGTTGGCACTTATGGACTGATGATTTGTAGGGCGCGGGCGACGACTAC

B-38

B-39

T-39

T-40

GCAGTAATCTACCTGTGCCAGTTCCCTGGAAGTACAGTACGCTGGTAAAGATAACTTCAC
CGTCATTAGATGGACACGGTCAAGGACCTTCATGTCATGCGACCATTCTATTGAAGTG

B-40

T-41

TCGCATGGCGACGAATACAAACACCTGATCAAATCCCTGCTGGTTACCCGATGTCCA
AGCGTACCCGCTGCTTATGTTGGACTAGTTAGGGACGACCAATGGGCTACAGGT

B-41

B-stop

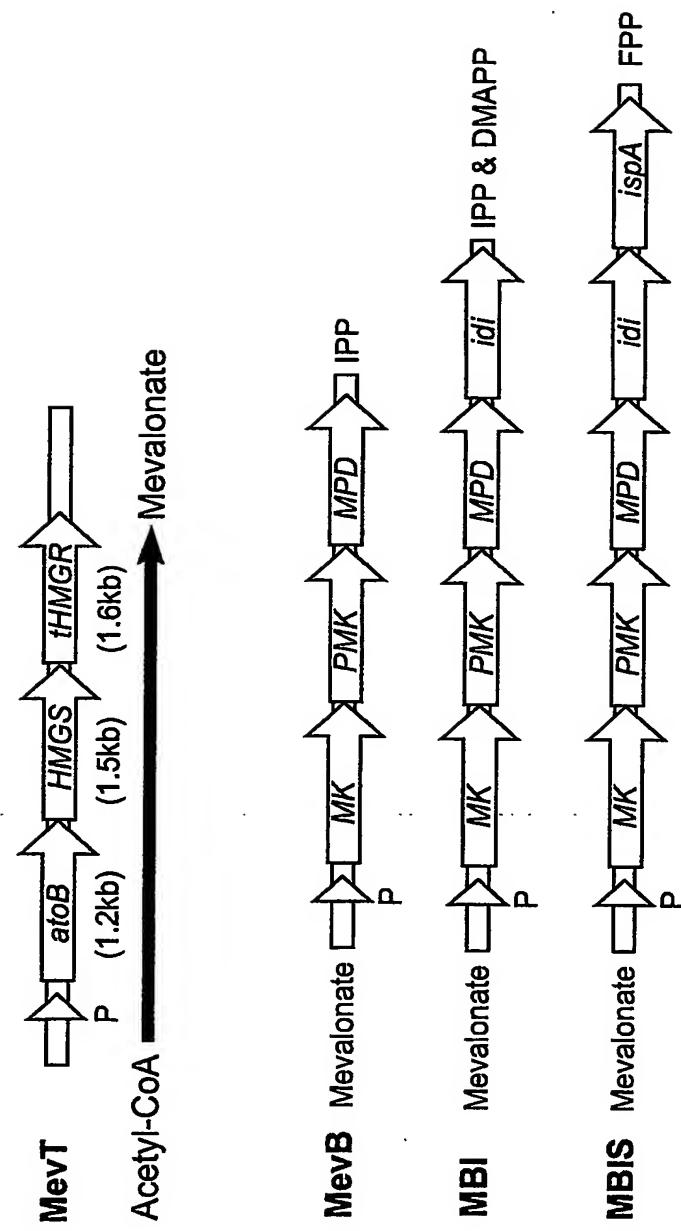
TCTGATCCCGGGATTAGAT SEQ ID NO: 23

AGACTAGGGCCCTAATCTA SEQ ID NO: 24

FIG. 12C

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FIG. 13



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